

SHEET 1 OF 1

Form PTO-1449 <b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (Use Several Sheets If Necessary)				Docket No: 1999-0336 (STG 162)		Application No: 09/593,215	
				Applicant: J. Heinonen et al.			
				Filing Date: 6/14/2000		Group Art Unit: (unknown)	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
PG	5,596,582 *	01/21/97	Sato et al.	370	509		
PG	5,774,450 *	06/30/98	Harada et al.	370	206		
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
PT	A1	Lawrey, Eric, OFDM Results, <a href="http://www.eng.jcu.edu.au/eric/thesis/Thesis">http://www.eng.jcu.edu.au/eric/thesis/Thesis</a> , <a href="http://www.eng.jcu.edu.au/eric/thesis/chapter1.htm">http://www.eng.jcu.edu.au/eric/thesis/chapter1.htm</a> (September 24, 1999), <a href="http://www.eng.jcu.edu.au/eric/thesis/chapter2.htm">http://www.eng.jcu.edu.au/eric/thesis/chapter2.htm</a> and <a href="http://www.eng.jcu.edu.au/eric/thesis/appendix.htm">http://www.eng.jcu.edu.au/eric/thesis/appendix.htm</a> , November 5, 1999 (56 pgs)					
	A2	Speth, Michael, OFDM Receivers for Broadband-Transmission, OFMD, <a href="http://www.ert.rwth-aachen.de/Projekte/Theo/OFDM/www_ofdm.html">http://www.ert.rwth-aachen.de/Projekte/Theo/OFDM/www_ofdm.html</a> ..... <a href="http://www.ert.rwth-aachen.de/Projekte/Theo/OFDM/www_ofdm.html">node1.html</a> through <a href="http://www.ert.rwth-aachen.de/Projekte/Theo/OFDM/www_ofdm.html">node9.html</a> , November 8, 1999 (15 pgs)					
	A3	Speth, Michael, et al., "Broadband Transmission Using ODM: System Performance and Receiver Complexity", (7 pgs) (date unknown)					
EXAMINER				DATE CONSIDERED 8/20/04			
EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP ' 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

(2/92 PTO)

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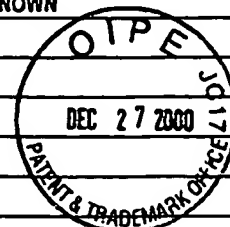
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U.S. Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	09/593,215
				Filing Date	14 June 2000
				First Named Inventor	J. Heinonen et al.
				Group Art Unit	Unknown
Examiner Name	Unknown				
SHEET	1	OF	1	Docket Number	1999-0336 (STG162)



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
P		5,790,000		HOOLE	08-25-1998	Claims 6, 7, 12-14, 17, 22-24

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
P		EPO	EP 0 877 526 A		LSI LOGIC CORP.	11-11-1998	Claims 1, 3, 15	
		UK	GB 2 324 447 A		SAMSUNG ELECTRONICS	10-21-1998	Claims 5, 7, 17	
			ZA 9 803 646 A		Fraunhofer Ges Foerderung Angewandten - Abstract	02-24-1999	Claims 1-3	
		PCT	WO 99/53667		Fraunhofer-Gesellschaft Forderung Der Angewandten	10-21-1999	Claims 1-3	
		EPO	EP 0869648 A2		NIPPON COLUMBIA CO.	10-07-1998	Claims 4, 7-11, 17-21	
		PCT	WO 98/19410		DISCOVISION ASSOCIATES	05-07-1998	Claims 1, 3, 6, 15; 7, 12-14, 17, 22-24	
P		EPO	EP 0453203 A2		TELEBIT CORPORATION	04-15-1991	Claims 1, 3, 6, 15; 7, 12-14, 17, 22-24	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>6</sup>	
P1	A1	PCT, INTERNATIONAL SEARCH REPORT FOR PCT/US 00/16719, 11/01/2000; Mailed 11/13/2000, (8 pgs.)		
	A2	KIM, DONG-KYU, ET AL., "Performance Evaluation of the Frequency Detectors for Orthogonal Frequency Division Multiplexing", IEEE Transactions of Consumer Electronics, Vol. 43, No. 3, August 1997, pp. 776-782.		
	A3	ZAMAN, S.U., ET AL., "Use of the DFT for Synchronization in Packetized Data Communications", IEEE, pp. III 261-264, 19 April 1994.		
P2	A4	YOOH, J.H., ET AL., "On Synchronizing and Detecting Multi-carrier CDMA Signals", IEEE, pp. 512-516, 6 November 1995.		

Examiner Signature		Date Considered	8/20/04
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two letter-code (WIPO Standard ST.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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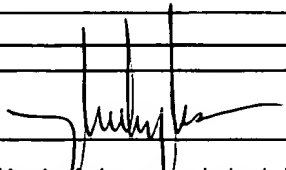
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Substitute for form 1449A/PTO		COMPLETE IF KNOWN	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets necessary)		Application Number	09/593,215
		Filing Date	June 14, 2000
		First Named Inventor	J. HEINONEN
		Group Art Unit	(Unknown)
		Examiner Name	(Unknown)
SHEET 1 OF 1	Docket Number	1999-0336 (STG162)	(103567-156902)

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
pr		5,901,180		Aslanis et al.	05/04/99	Fig. 2, col. 9, lines 16-20

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

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Examiner Signature		Date Considered	8/20/04
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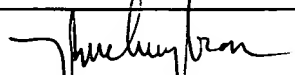
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Substitute for form 1448A/PTO		<b>COMPLETE IF KNOWN</b>	
<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (use as many sheets necessary)		Application Number	09/593,215
		Filing Date	June 14, 2000
		First Named Inventor	J. HEINONEN
		Group Art Unit	(Unknown)
		Examiner Name	(Unknown)
Sheet 1 of 1	Docket Number	1999-0336 (STG162)	(103567-156902)

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
DS		5,351,235		LAHTINEN	09/27/01	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
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